## **Visual Assessment**

New Jersey Department of Environmental Protection Division of Watershed Management

### **General Sheet**

Segment ID #:	:	Ass	essment # of the year:	
Stream Name	Name: Watershed Management Area:			
Municipal Cod	de(s):			
Segment Iden	tification			
Beginr	ning at Latitude/Long	gitude:		
Ending	g at Latitude/Longitu	ıde:		
Survey Team:			Time:	
			Date:	
Weather: 1.	Clear 2. Overcast 3. L	ight rain/Showers 4. Ste	ady Rain 5. Heavy Rain 6. Snow 7. He	avy Snow Melt
Today	Last 48 Hours	Past Week	Days since last rain:	
			Air Temperature:	° F
1				

Monitoring Sheet right and left stream bank facing upstream

1. Stream Width		For Non-Wadable Streams:			
		Constant 2. Widening 3. Mild constrictions 4. Sharp constriction			
		For Wadable Streams:			
		Stream Width average (ft)			
2. Stream Velocity		Velocity av	erage in feet per second (d	ivide the average time by 1	0)
Stream Depth /     Velocity Combinations		1. Slow, de	eep 2. Fast, deep 3. Fast,	, shallow	
4. Stream Sinuosity		Straight     Moderat	<ul> <li>natural 2. Straight – cha</li> <li>e bends 5. Sharp bends (c</li> </ul>	nnelized 3. Slight bends oxbows)	
5. Stream Flows		1. Slow 2	. Moderate 3. Swift 4. Co	mbination	
6. Pools & Riffles		1. None pr	esent 2. Present		
7. Stream Substrate			ticles (silt, clay, mud) 2. Sa 6. Bedrock 7. Other	and 3. Gravel 4. Cobble	
8. Stream Substrate		1. Loose	2. Stable		
9. Embeddedness (Gravel, Cobble, & Boulders)		1. 0 – 25% surrounded by fine sediment 2. 26 – 50% surrounded by fine sediment 3. 51 – 75% surrounded by fine sediment 4. Greater than 75% surrounded by fine sediment			
10. Sediment on Stream Bottom		1. None 2. Light 3. Moderate 4. Severe			
11. Bank Stability	Right Bank  Left Bank	Stable, evidence of erosion or bank failure absent or minimal; <5% of bank affected     Moderately Stable, small areas of erosion, mostly healed over; <5 – 30% of bank in reach has areas of erosion     Moderately Unstable; 31 – 60% of bank in reach has areas of erosion, high erosion potential during flooding     Unstable, many eroded areas, "raw" areas frequent; obvious bank sloughing;			
12. % of Tree Canopy			<ul> <li>of bank erosional scars</li> <li>2. 26 – 50%</li> <li>3. 51 – 75%</li> </ul>	6 4.76 – 100%	
Above Stream					
13. Riparian Vegetation	Right Bank	1. > 50 ft. width 2. 35 – 50 ft. width 3. 15 – 35 ft. width 4. < 15 ft. width			
	Left Bank				
14. Woody Debris		1. None 2. In spots 3. Heavy throughout reach			
15. Woody Debris		1. Free floating 2. Attached			
16. Predominant Aquatic Vegetation		Rooted emergent 2. Rooted submergent 3. Rooted floating 4. Free floating			
17. Algae Location		1. None 2. On streambed 3. On surface 4. Both			
18. Algae Color		1. Light green 2. Dark green 3. Brown 4. Other			
19. Channel Alteration		1. Stream with normal pattern 2. Some channelization present, usually in areas of bridges, etc 3. Channelization extensive, 40 – 80% of the stream reach 4. Over 80% of the stream channelized, gabion baskets and/or riprap, and/or concert present			
20. Structures	Brid		Culverts	Dams	Other

21. Water Conditions	
Odor:	1. Normal 2. Sewage 3. Petroleum 4. Chemical 5. Anaerobic 6. Other
Color:	1. Clear 2. Tea 3. Milky 4. Muddy 5. Other
Surface Coating	1. None 2. Oily 3. Foam 4. Scum 5. Other

Observations: (	indicate locations on n	пар)	
Photo Reference	; #'s		
GPS Reference	<b>;</b> 's		

### **Assessment Sheet**

Streamside Land Use - 1. If Present 2. Clearly Impacting Stream				
	Within 50 ft. of top of bank		Within 1/4 mile of site	
	Left Bank	Right Bank	Left Bank	Right Bank
Residential single-family housing				
Residential multifamily housing				
3. Residential Lawns				
4. Residential Pets				
5. Commercial / Institutional				
6. Commercial / Institutional Lawns				
7. Roads Paved				
8. Roads Unpaved				
9. Construction Underway For:				
Housing Development				
Commercial				
Road / Bridge Construction Repair				
13. Agricultural Grazing Land				
14. Agricultural Feed Lots / Animal Holding Areas				
15. Agricultural Cropland				
16. Inactive Agricultural Land / Fields				
17. Recreational Power Boating				
18. Recreational Golfing				
19. Recreational Camping				
20. Recreational Swimming / Fishing / Canoeing				
21. Recreational Hiking / Paths				
22. Waterfowl (with approximate #)				
23. Pet Waste				
24. Industrial				
25. Other				

Observations: (indicate locations on map)	
<del>_</del>	
<del>_</del>	
<del>_</del>	
Photo Reference #'s	
GPS Reference #'s	

# Pipe & Drainage Ditch Inventory (fill out one sheet for each one)

Outfall Pipe Reference # _		Pipe Diameter:	in. or ft.
Type:	1. Storm drain 2. Resi	idential discharge 3. Industrial Discharge (NJPDES #	
	4. Combined sewer ove	erflow 5. Other	
Pipe Material:		1. Concrete 2. Steel 3. PVC 4. Clay 5. Other	
Pipe Location:	<del></del>	1. In stream 2. In stream bank 3. Near stream	
Pipe Flow:	1. 1	None 2. Trickle 3. Intermittent 4. Steady 5. Heavy	
Flow Appearance:		1. None 2. Trickle 3. Intermittent 4. Steady 5.	Heavy
Flow Color:			
Is streambank at ou	tfall eroded?		
Stream channel dov	vnstream:	1. Stable 2. Eroded	
Drainage Ditch #		1. Unknown 2. Outfall pipe 3. Parking Lot 4. Settl	ement Basin / Pond
		5. Agricultural field 6. Livestock Operation	
Begins At:			
Ditch Lining:	1. Stone 2. Vegetati	ion 3. Concrete Ditch Is:	_ 1. Stable 2. Eroding
Ditch Flow:	1.	None 2. Intermittent 3. Steady	
Flow Appearance:		1. Clear 2. Turbid 3. Oily 4. Foamy 5. Colored	I
Stream channel dov	vnstream:	1. Stable 2. Eroded	
Observations: (indicate lo	ocations on map)		
Photo Reference #'s			

GPS Reference #'s